1. Modify the following texts so that the statements are true (choose the correct word from brackets).

A resistive touchscreen consists of layers, out of which the flexible plastic and glass layers are two important electrically layers.

A capacitive touchscreen also consists of layers of glass, which are coated with such as Indium Tin Oxide.

1. Write the gesture types based on the notion of motion:

1. static

2. dynamic

3. continuous

1. Choose two main approaches used in Recommendation System scheme:

□ linear regression

**x content-based**

□ random recommendation

**x collaborative filtering**

1. Write at least three applications using gesture control (except TV control):

1. TV control

2. Google maps

3. Clear – iOS application

4. professional coaching applications

5. Computer Aided Design (CAD)

6. drone navigation (Spark)

1. Which are the technologies used in BCI solutions?

x **transcranial magnetic stimulation**

□ electrocardiography

x **electroencephalography**

□ electrooculography

□ electromyography

1. What statements regarding eye tracking are true?

x **can be used for mouse navigation**

□ solutions for HMD (head mounted displays) are not yet available

x **there exist mobile binocular solutions**

x **eye tracker can be mounted below screen/monitor**

1. Complete the paragraph with correct words

In a microphone, a \_diaphragm\_ reacts to \_acoustic\_ waves with vibration, which is converted into \_electrical\_ signal. In a \_condenser\_ microphone, a diaphragm serves as one of the condenser plates. This microphone \_requires\_ power source. A dynamic microphone uses \_magnet\_ inside a coil to produce electrical current when the membrane moves. Such microphone \_doesn’t need\_ external power source.